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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,306	04/07/2004	Tomoyuki Nishikawa	542-015.003	7453

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EXAMINER

SHAH, MANISH S

ART UNIT	PAPER NUMBER
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2853

DATE MAILED: 04/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/820,306

Applicant(s)

NISHIKAWA ET AL.

Examiner

Manish S. Shah

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 6/1/04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1 & 3-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Ylitalo et al. (# US 2003/0021961).

Ylitalo et al. discloses a process for inkjet printing on cloth using ultraviolet ray curable ink, which includes the steps of applying transparent UV curable ray ink ([0036]-[0038]; [0111]) and then curing by ultraviolet rays ([0038]); and thereafter applying an ultraviolet ray curable ink containing a coloring component to form an image ([0038]), wherein the transparent ultraviolet ray curable ink and the ultraviolet ray curable ink containing a coloring component includes reactive oligomer ([0046]-[0047]), a reactive diluents ([0076]-[0079]), and photo-initiator ([0093]); the reactive oligomer being contained in an amount of 1 to 70% by weight in the transparent ultraviolet curable ink and in an amount of 1 to 60% by weight in the ultraviolet ray curable ink containing a coloring component ([0123]-[0149]). They also disclose that the transparent ultraviolet ray curable ink and the ultraviolet curable ink containing colorant are heated by heating means and then discharged ([0111]; [0114]; see Examples).

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2. Claim 6 is rejected under 35 U.S.C. 102(b) as being anticipated by Shimoda et al. (# US 6126281).

Shimoda et al. discloses an inkjet printing apparatus equipped with a linear ink head having a transparent ink head (element: 1s), an ultraviolet ray exposing means (element: 7) and ultraviolet ray curable ink heads for various colors in a straight line (element: 1y, 1m, 1c; figure: 4, 8-10).

3. Claim 6 is rejected under 35 U.S.C. 102(b) as being anticipated by Caiger et al. (# US 6145979).

Caiger et al. discloses an inkjet printing apparatus equipped with a linear ink head having a transparent ink head, an ultraviolet ray exposing means and ultraviolet ray curable ink heads for various colors in a straight line (figure: 5).

4. Claim 5-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Lin (# US 5764263).

Lin discloses an inkjet printing apparatus equipped with an ink head having a transparent ink head (element: 24, 27), an ultraviolet ray exposing means (element: 25, 30) and ultraviolet ray curable ink heads for various colors in a straight line (element: 22, 29; figure: 2).

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claim 2 is rejected under 35 U.S.C. 102(e) as being anticipated by Blanco (# US 2004/0153204).

Blanco discloses a process for inkjet printing on cloth (canvas) using ultraviolet ray curable ink, which includes the steps of forming a three-dimensional pattern by repeating steps of applying transparent UV curable ray ink; and then curing by ultraviolet rays; and thereafter applying an ultraviolet ray curable ink containing a coloring component to form a three dimensional image (see Claim 11, figure: 3, 5).


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Manish S. Shah whose telephone number is (571) 272-2152. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Manish S. Shah
Primary Examiner
Art Unit 2853

MSS

3/31/06